## **AMENDMENTS TO THE CLAIMS**

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1. (Original) A foam article comprising a thermoplastic elastomer and having a complete submersion water absorption of less than or equal to  $40 \times [(1-A)/A]$ , wherein A= foam density in grams/cubic centimeter,

the foam article being substantially free of a melt strength enhancing additive comprising fluorine.

- 2. (Original) The foam article of claim 1, wherein the complete submersion water absorption is less than or equal to about  $25 \times [(1-A)/A]$ .
- 3. (Original) The foam article of claim 1, wherein the complete submersion water absorption is less than or equal to about  $10 \times [(1-A)/A]$ .
- 4. (Original) The foam article of claim 1, wherein the complete submersion water absorption is less than or equal to about  $5 \times [(1-A)/A]$ .
- 5. (Original) The foam article of claim 1, wherein the foam density is between about 0.30 grams/cubic centimeter and about 0.70 grams/cubic centimeter.
- 6. (Original) The foam article of claim 5, wherein the complete submersion water absorption is less than about 35 percent.
- 7. (Original) The foam article of claim 5, wherein the complete submersion water absorption is less than about 5 percent.
- 8. (Original) The foam article of claim 1, wherein the foam density is between about 0.35 grams/cubic centimeter and about 0.60 grams/cubic centimeter.

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9. (Original) The foam article of claim 8, wherein the complete submersion water absorption is less than about 35 percent.

- 10. (Original) The foam article of claim 8, wherein the complete submersion water absorption is less than about 5 percent.
- 11. (Original) The foam article of claim 1, wherein the foam density is between about 0.40 grams/cubic centimeter and about 0.50 grams/cubic centimeter.
- 12. (Original) The foam article of claim 11, wherein the complete submersion water absorption is less than about 35 percent.
- 13. (Original) The foam article of claim 12, wherein the complete submersion water absorption is less than about 5 percent.
- 14. (Original) The foam article of claim 1, wherein the foam article is a microcellular material.
- 15. (Original) The foam article of claim 1, wherein the foam article has an average cell size less than about 100 microns.
- 16. (Original) The foam article of claim 1, wherein the foam article has an average cell size less than about 80 microns.
- 17. (Original) The foam article of claim 1, wherein the thermoplastic elastomer is a thermoplastic vulcanizate.
- 18. (Original) The foam article of claim 1, wherein the foam article is essentially free of residual chemical blowing agents or by-product of chemical blowing agent.

(Original) The foam article of claim 1, wherein the foam article is a gasket, a seal or a 19. weatherstrip.

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- (Original) The foam article of claim 1, wherein the foam article is free of an auxiliary layer 20. formed on a surface of the foam article that limits water absorption.
- (Original) The foam article of claim 20, wherein the foam article is free of a co-extruded 21. coating layer formed on a surface of the foam article that limits water absorption.
- (Original) The foam article of claim 20, wherein the foam article is free of a hydrophobic 22. coating

layer formed on a surface of the foam article that limits water absorption.

- (Original) The article of claim 1, wherein the foam article is substantially free of an acrylic 23. modified PTFE.
- (Original) The article of claim 1, wherein the foam article has a U-test water absorption of 24. less than or equal to 0.5%.
- (Original) A foam article comprising a thermoplastic elastomer and having a complete 25. submersion water absorption of less than or equal to 40 x [(1-A)/A], wherein A= foam density in grams/cubic centimeter, the thermoplastic elastomer including a thermoplastic phase comprising a first polymer type,

the foam article being substantially free of a melt strength enhancing additive having a different polymer type than the first polymer type.

(Original) The foam article of claim 25, wherein the complete submersion water absorption 26. is less than or equal to about  $25 \times [(1-A)/A]$ .

- (Original) The foam article of claim 25, wherein the complete submersion water absorption 27. is less than or equal to about  $10 \times [(1-A)/A]$ .

- (Original) The foam article of claim 25, wherein the complete submersion water absorption 28. is less than or equal to about  $5 \times [(1-A)/A]$ .
- (Original) The foam article of claim 25, wherein the foam density is between about 0.30 29. grams/cubic centimeter and about 0.70 grams/cubic centimeter.
- (Original) The foam article of claim 29, wherein the complete submersion water absorption 30. is less than about 35 percent.
- (Original) The foam article of claim 29, wherein the complete submersion water absorption 31. is less than about 5 percent.
- (Original) The foam article of claim 25, wherein the foam density is between about 0.40 32. grams/cubic centimeter and about 0.50 grams/cubic centimeter.
- (Original) The foam article of claim 25, wherein the foam article is a microcellular material. 33.
- (Original) The foam article of claim 25, wherein the foam article has an average cell size 34. less than about 100 microns.
- (Original) The foam article of claim 25, wherein the foam article has an average cell size 35. less than about 80 microns.
- (Original) The foam article of claim 25, wherein the thermoplastic elastomer is a 36. thermoplastic vulcanizate.

37. (Original) The foam article of claim 25, wherein the foam article is free of an auxiliary layer formed on a surface of the foam article that limits water absorption.

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- 38. (Original) The foam article of claim 37, wherein the foam article is free of a co-extruded coating layer formed on a surface of the foam article that limits water absorption.
- 39. (Original) The foam article of claim 37, wherein the foam article is free of a hydrophobic coating

layer formed on a surface of the foam article that limits water absorption.

- 40. (Original) The foam article of claim 25, wherein the foam article has a U-test water absorption of less than or equal to 0.5%.
- 41. (Original) A foam article comprising a thermoplastic elastomer and having a complete submersion water absorption of less than or equal to 40 x [(1-A)/A], wherein A= foam density in grams/cubic centimeter,

the foam article being substantially free of a melt strength enhancing additive comprising fluorine and being free of an auxiliary layer formed on a surface of the foam article that limits water absorption.

- 42. (Original) The foam article of claim 41, wherein the foam article is free of a co-extruded coating layer formed on a surface of the foam article that limits water absorption.
- 43. (Original) The foam article of claim 41, wherein the foam article is free of a hydrophobic coating

layer formed on a surface of the foam article that limits water absorption.

44. (Original) The foam article of claim 41, wherein the complete submersion water absorption is less than or equal to about  $25 \times [(1-A)/A]$ .

(Original) The foam article of claim 41, wherein the complete submersion water absorption 45. is less than or equal to about  $5 \times [(1-A)/A]$ .

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- (Original) The foam article of claim 41, wherein the foam density is between about 0.30 46. grams/cubic centimeter and about 0.70 grams/cubic centimeter.
- (Original) The foam article of claim 46, wherein the complete submersion water absorption 47. is less than about 35 percent.
- (Original) The foam article of claim 46, wherein the complete submersion water absorption 48. is less than about 5 percent.
- (Original) The foam article of claim 41, wherein the foam article has a U-test water 49. absorption of less than or equal to 0.5%.
- (Original) A foam article comprising a thermoplastic elastomer and having a complete 50. submersion water absorption of less than or equal to 40 x [(1- A)/A], wherein A= foam density in grams/cubic centimeter, the thermoplastic elastomer including a thermoplastic phase comprising a first polymer type,

the foam article being substantially free of a melt strength enhancing additive comprising a different polymer type than the first polymer type and being free of an auxiliary layer formed on a surface of the foam article that limits water absorption.

- (Original) The foam article of claim 50, wherein the foam article is free of a co-extruded 51. coating layer formed on a surface of the foam article that limits water absorption.
- (Original) The foam article of claim 50, wherein the foam article is free of a hydrophobic 52. coating layer formed on a surface of the foam article that limits water absorption.

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- (Original) The foam article of claim 50, wherein the complete submersion water absorption 53. is less than or equal to about  $25 \times [(1-A)/A]$ .

- (Original) The foam article of claim 50, wherein the complete submersion water absorption 54. is less than or equal to about  $5 \times [(1-A)/A]$ .
- (Original) The foam article of claim 50, wherein the foam density is between about 0.30 55. grams/cubic centimeter and about 0.70 grams/cubic centimeter.
- (Original) The foam article of claim 55, wherein the complete submersion water absorption 56. is less than about 35 percent.
- (Original) The foam article of claim 55, wherein the complete submersion water absorption 57. is less than about 5 percent.
- (Original) The foam article of claim 50, wherein the foam article has a U-test water 58. absorption of less than or equal to 0.5%.
- 59-75. (Cancelled)
- (Original) A foam article comprising a thermoplastic elastomer and having a U-test water 76. absorption of less than or equal to 0.5%, the foam article being substantially free of a melt strength enhancing additive comprising fluorine and being free of an auxiliary layer formed on a surface of the foam article that limits water absorption.
- (Original) The foam article of claim 76, wherein the U-test water absorption is less than or 77. equal to 0.3%.

- (Original) The foam article of claim 76, wherein the U-test water absorption is less than or 78. equal to 0.1%.

- (Original) The foam article of claim 76, wherein the U-test water absorption is less than or 79. equal to 0.05%.
- (Original) The foam article of claim 76, wherein the foam article has an average cell size 80. less than about 100 microns.
- (Original) The foam article of claim 76, wherein the foam article has an average cell size 81. ü less than about 80 microns.
- (Original) The foam article of claim 76, wherein the thermoplastic elastomer is a 82. thermoplastic vulcanizate.
- (Original) The foam article of claim 82, wherein the thermoplastic vulcanizate comprises 83. polypropylene and fully cross-linked EPDM.
- (Original) The foam article of claim 76, wherein the foam article is essentially free of 84. residual chemical blowing agents or by-product of chemical blowing agent.
- (Original) The foam article of claim 76, wherein the foam article is a gasket, a seal or a 85. weatherstrip.
- 86. (Original) The foam article of claim 76, wherein the foam article is free of a co-extruded coating layer formed on a surface of the foam article that limits water absorption.
- (Original) The foam article of claim 76, wherein the foam article is free of a hydrophobic 87. coating

layer formed on a surface of the foam article that limits water absorption.

- 88. (Original) The foam article of claim 76, wherein the foam article is substantially free of an acrylic modified PTFE.
- 89. (Original) The foam article of claim 76, wherein the thermoplastic elastomer has a durometer of less than 60 Shore A.
- 90. (Original) The foam article of claim 76, wherein the thermoplastic elastomer has a durometer of less than 45 Shore A.
- 91. (Original) The foam article of claim 76, wherein the foam article has a complete submersion water absorption of less than or equal to 40 x [(1-A)/A], wherein A= foam density in grams/cubic centimeter.
- 92. (Original) A foam article comprising a thermoplastic elastomer having a U-test water absorption of less than or equal to 0.5%, the thermoplastic elastomer including a thermoplastic phase comprising a first polymer type,

the foam article being substantially free of a melt strength enhancing additive comprising a different polymer type than the first polymer type and being free of an auxiliary layer formed on a surface of the foam article that limits water absorption.

- 93. (Original) The foam article of claim 92, wherein the U-test water absorption is less than or equal to 0.3%.
- 94. (Original) The foam article of claim 92, wherein the U-test water absorption is less than or equal to 0.1%.

- 95. (Original) The foam article of claim 92, wherein the U-test water absorption is less than or equal to 0.05%.
- 96. (Original) The foam article of claim 92, wherein the foam article has an average cell size less than about 100 microns.
- 97. (Original) The foam article of claim 92, wherein the foam article has an average cell size less than about 80 microns.
- 98. (Original) The foam article of claim 92, wherein the thermoplastic elastomer is a thermoplastic vulcanizate.
- 99. (Original) The foam article of claim 98, wherein the thermoplastic vulcanizate comprises polypropylene and fully cross-linked EPDM.
- 100. (Original) The foam article of claim 92, wherein the foam article is essentially free of residual chemical blowing agents or by-product of chemical blowing agent.
- 101. (Original) The foam article of claim 92, wherein the foam article is a gasket, a seal or a weatherstrip.
- 102. (Original) The foam article of claim 92, wherein the foam article is free of a co-extruded coating layer formed on a surface of the foam article that limits water absorption.
- 103. (Original) The foam article of claim 92, wherein the foam article is free of a hydrophobic coating layer formed on a surface of the foam article that limits water absorption.
- 104. (Original) The foam article of claim 92, wherein the thermoplastic elastomer has a durometer of less than 60 Shore A.

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105. (Original) The foam article of claim 92, wherein the thermoplastic elastomer has a durometer of less than 45 Shore A.

106. (Original) The foam article of claim 92, wherein the foam article has a complete submersion water absorption of less than or equal to  $40 \times [(1-A)/A]$ , wherein A= foam density in grams/cubic centimeter.

107-109. (Cancelled)